Measurement

| comparing And Estimating |  |  |  |  |  |
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| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| compare, describe and solve practical problems for: <br> * lengths and heights [e.g. long/short, longer/shorter, tall/short, double/half] mass/weight [e.g. heavy/light, heavier than, lighter than] <br> * capacity and volume [e.g. full/empty, more than, less than, half, half full, quarter] time [e.g. quicker, slower, earlier, later] | compare and order lengths, mass, volume/capacity and record the results using >, < and = |  | estimate, <br> compare and calculate different measures, including money in pounds and pence (also included in Measuring) | calculate and compare the area of squares and rectangles including using standard units, square centimetres ( $\mathrm{cm}^{2}$ ) and square metres ( $\mathrm{m}^{2}$ ) and estimate the area of irregular shapes (also included in measuring) estimate volume (e.g. using $1 \mathrm{~cm}^{3}$ blocks to build cubes and cuboids) and capacity (e.g. using water) | calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed ( $\mathrm{cm}^{3}$ ) and cubic metres ( $\mathrm{m}^{3}$ ), and extending to other units such as $\mathrm{mm}^{3}$ and $\mathrm{km}^{3}$. |
| sequence events in chronological order using language [e.g. before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening] | compare and sequence intervals of time | compare durations of events, for example to calculate the time taken by particular events or tasks |  |  |  |
|  |  | estimate and read time with increasing accuracy to the nearest minute; record and compare time in |  |  |  |

## Measurement

|  |  | terms of seconds, minutes, hours and o'clock; use vocabulary such as a.m./p.m., morning, afternoon, noon and midnight (appears also in Telling the Time) |  |  |  |  |
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| MEASURING and CALCULATING |  |  |  |  |  |  |
| Year 1 | Year 2 | Year 3 |  | Year 4 | Year 5 | Year 6 |
| measure and begin to record the following: <br> * lengths and heights <br> * mass/weight <br> * capacity and volume <br> time (hours, minutes, seconds) | choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature $\left({ }^{\circ} \mathrm{C}\right)$; capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels | measure, compare, add and subtract: lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ); mass (kg/g); volume/capacity (l/ml) |  | nate, compare calculate rent sures, including ey in pounds pence ears also in paring) | use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation including scaling. | solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate (appears also in Converting) |
|  |  | measure the perimeter of simple 2-D shapes |  | sure and ulate the meter of a inear figure uding squares) ntimetres and es | measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres | recognise that shapes with the same areas can have different perimeters and vice versa |

## Measurement

| MEASURING and CALCULATING |  |  |  |  |  |
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| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| recognise and know the value of different denominations of coins and notes | recognise and use symbols for pounds (£) and pence ( $\mathbf{p}$ ); combine amounts to make a particular value | add and subtract amounts of money to give change, using both $£$ and $p$ in practical contexts |  |  |  |
|  | find different combinations of coins that equal the same amounts of money |  |  |  |  |
|  | solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change |  |  |  |  |
|  |  |  | find the area of rectilinear shapes by counting squares | calculate and compare the area of squares and rectangles including using standard units, | calculate the area of parallelograms and triangles |
|  |  |  |  | square centimetres ( $\mathrm{cm}^{2}$ ) and square metres ( $\mathrm{m}^{2}$ ) and estimate the area of irregular shapes | calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres ( $\mathrm{cm}^{3}$ ) and cubic metres |
|  |  |  |  | recognise and use square numbers and cube numbers, and the notation for squared ( ${ }^{2}$ ) | $\left(m^{3}\right)$, and extending to other units [e.g. $\mathrm{mm}^{3}$ and $\mathrm{km}^{3}$. |
|  |  |  |  | and cubed ( ${ }^{3}$ ) <br> (copied from Multiplication and Division) | recognise when it is possible to use formulae for area and volume of shapes |

Measurement

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| TELLING THE TIME |  |  |  |  |  |
| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| tell the time to the hour and half past the hour and draw the hands on a clock face to show these times. | tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times. | tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12 -hour and 24 hour clocks | read, write and convert time between analogue and digital 12 and 24hour clocks (appears also in Converting) |  |  |
| recognise and use language relating to dates, including days of the week, weeks, months and years | know the number of minutes in an hour and the number of hours in a day. <br> (appears also in Converting) | estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as a.m./p.m., morning, afternoon, noon and midnight <br> (appears also in Comparing and Estimating) |  |  |  |
|  |  |  | solve problems involving converting from hours to minutes; | solve problems involving converting between units of time |  |

## Measurement

|  |  | minutes to seconds; <br> years to months; weeks <br> to days <br> (appears also in <br> Converting) |  |  |
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## Measurement

| CONVERTING |  |  |  |  |  |
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| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|  | know the number of minutes in an hour and the number of hours in a day. (appears also in Telling the Time) | know the number of seconds in a minute and the number of days in each month, year and leap year | convert between different units of measure (e.g. kilometre to metre; hour to minute) | convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) | use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places |
|  |  |  | read, write and convert time between analogue and digital 12 and 24hour clocks (appears also in Converting) | solve problems involving converting between units of time | solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate (appears also in Measuring and Calculating) |
|  |  |  | solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks | understand and use equivalences between metric units and common imperial units such as inches, pounds | convert between miles and kilometres |

## Measurement

|  |  | to days <br> (appears also in Telling the <br> Time) | and pints |  |
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